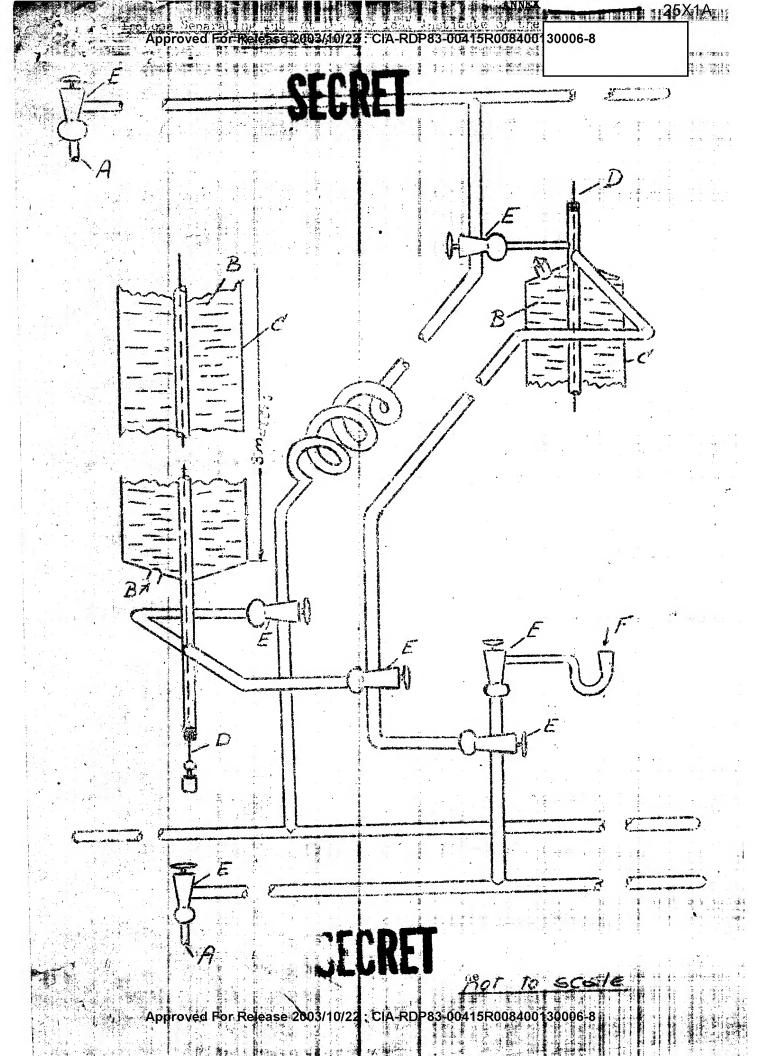
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10 May 1951

## the Meld of Isotope Separation at the Physical

Jess 1950 to January 1951

About June 1950 Halle (M 52/D 92) University was requested, probably by Karlshoret, to de research work in the field of isotope separation. This project was to be conducted on the basis of the thermal diffusion method developed by Clumpus, Professor Mognah, Chief of the Institute for Applied Physics, was in diarge of the project. (1) Spectrally pure nitrogene was to be used for preliminary tests of the research equipment.

The research equipment, composed of six sets of separating tubes and one set of partifying tubes, was completed in early Jenuary 1951. The apparatus was three meters high and 20 to 3 seters wide. It was made of glass and was mounted on the well. (3) Plans for the construction of the set came from Marburg (L 51/0 74) University, (4) and (2)

It was learned that a mass spectrograph is being constructed by the VEB Telefunion (Mationalized Plant) in Erfort (M 51/J 36), the only enterprise in the Soviet Zone to produce best spectrographs. (5) The device under construction was provided with double Scensing lenses, like the mass spectrographs for isotope separation being used in the United States. Its construction had been completed to the extent, that the adjustment of the apparetus was to be started in Harch 1951.

343,22

Pield Comment (1) Professor Doctor Phil Quenther Mosmon is Chief of the Institute for Applied Physics and of the Phytographic Institute at Halls University.

(2) The information was confirmed by an untested source, who also stated that most of the personnal engaged in this project were advanced statents. All professors and their assistants ordered to work in this field feared that, in case of good results, they taght be drafted to work in the U.S.S. it. on mentum isotone seperation.

(3) For a rough elected of a set of segmenting tubes, see Amon. The primitive device reproduced on the attached startch is believed to be a demonstration model to explain to students the basical functioning of thermal diffusions, rather than a complicated apparatus required for uranium isotope separation.

This assumption is supported by the following facts: The spectrum telescope developed by Clusius requires long tubes with a small inside diameter. The reperted length of three meters is, therefore, considered too small, and the dismeter of 10-on should probably read 10-on. Furthermore, the process of separating uranium isotopes is performed with high pressure and not with low pressure, and glass tubes council be used with UP; (uranium hexafluoride).

(h) This may refer to Professor Doctor Engineer Wilhelm Walcher, Chief of the

Physical Institute at Markung University, Profespor Walcher worked in the

field of isotope separation with miss spectrographs.

The former Telefinion Plant in Artert specialized on the production of tubes and recently started the production of small radio sets. It is believed inprobable that this plant should have specialized on the manufacture of mass spectrographs for isotope segmention. Therefore, the apparetus being constrepted in Erfort is believed to be a device for the photographic presentation of mass spectra, rather that a mass spectrograph. This photographic apparatus is provided with ducals focusing leases and was developed by A.J. Dampeter, J. Matteush, and R. Herreg in 1931, and 1935.

one sketch en ditto

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Annex

### Legenda

- A. Pressure gauge, pressure 1073.
- B. Cooling water.
- C. Cooling jacket.
- D. Comstantan heating wire, O.E wm in diameter.
- E. Regulating valves.
- F. Tapping point.

The tubes were made of glass and had dismeter of about 10-om. The sketch shows one of the six separating units. The seventh set was provided with a separating tube, 12 meter lang, for the elimination of impurities.

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	This report consists of a photostated letter, dated 16 February 1951, VEB (People-Owned Enterprise) Agil Plant in Berlin-Oberschoenweide to the Machine-Building in Berlin. The letter states that the plant is confronte necessity of curtailing the production of welding electrodes, and that it we have to effect a temporary reduction in personnel so as to avoid increasing price of its products. The main reason for the anticipated curtailment is difficulty in procuring welding-core wire Schweisskerndraehten. Althoug took emergency steps and ordered this material from foreign countries (for Czechoslovakia) as well as domestic sources (Hennigsdorf Plant), these mead according to the letter, result in full utilization of plant capacity, and workers will in all probability have to be laid off for the months of Marchine-Building for aid. Mention is made of the fact plan could not be fulfilled because of shortages of material, and that the	Ministry for d with the ill probably g the cost said to be the h the plant example, sures will not, therefore, h and April 1951.  by appealing that the 1950
	fronted with the same situation for 1951, although presumably for the 1st It is pointed out that the plant prepared for the new Five-Year Plan by pr an extensive expansion of the production program, and that valuable capaci production of welding electrodes, regarded as a point for emphasis within be wasted if the plant does not receive aid as soon as possible.	quarter only. oviding for ty for the

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